



HIAC 8011+ LIQUID PARTICLE COUNTING SYSTEM

...designed for the real world.

Intelligent on-screen prompts guide users through common sampling activity.

- Advanced instrument diagnostics with recommended actions for users
- User alerts for particle settling and run-to-run variances
- HRLD Smart Sensor alerts for service and calibration due

Sample management system ensures consistent, accurate data.

- Pressurized sample delivery reduces the impact of bubbles
- Integrated Vacuum/Degas function streamlines sample handling for increased accuracy.
- Automated sample flow for precision data

Fewer steps...increase throughput.

- One button sampling results under 60 secs
- Quickly load up to 20 custom test recipes
- Set up your own sampling recipe in less than 5 steps

Stop wasting time diluting samples and cleaning the instrument.

- No dilution required for high viscosity fluids (<425cSt)
- Automated cleaning and flushing routines.
- Sensor contamination alarm informs you in advance to ensure you clean prior to wasting sample and getting bad data



Petrochemical Industry



Injection Molding Plants



Marine Industry



Aerospace Industry

Immediate particle concentration data

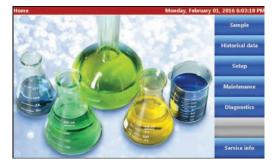
Eliminate printing and go paperless. Get the data immediately in a PDF or Excel® file.

- Create application specific reports in PDF or Excel[®] format
- Embedded web browser for online report review and approval
- Export reports via USB memory stick or Ethernet

On-site HIAC expertise. Call us, speak with a HIAC expert.

- On-site service and calibration
- Notification with a phone call when your unit is in need of routine service
- Free technical support for the life of your instrument
- 1-800-866-7889





Sampling		Monday, Feb	mary 01,	2016 1:57:01 AM
Size (µm)	Recipe "test" - Run Report "NAVAIR 01-1A Differential (Counts/3	-17*	Class	
5.000 - 15.00 15.00 - 25.00 25.00 - 50.00 50.00 - 100.0 ≥ 100.0		0.0 0.0 0.0 0.0		
			Di	splay histogram
			St	irrer speed (Off)
	the lange as a	0. W	_	Stop

isto	rical Data			Monday, Febru	ary 01, 2016 2:04:3
		NA	VAIR 01-1A	17	
	Flow Rate (mL/min): 25		Sample Time: 2/1/2016 1/56/29 AM		Next record
	Calibration Method: PSL		Operator Name: User		
	Sample Volume (mL): 25		field name 1: default		<< Previous re
	Number of Runs: 5		field name2: default		
	Dibytic	in factor: 1	Field	Name3: default	
	Background Sul	Araction: NO	Field	name-k default	
	Discard first run: NO		feld Name% default		Next day >
	Reporting 1	Standard: NAVAIR 01-1	A- Field	Namelic default	1. A
	Run 1/5				a second s
	Size (pm)	Counts/mL	Class		<< Prev da
	6.000	54176.0	5		
	10.000	74780.0	6		
	21.000	1588.0	5		Jump to da
	38.000	20.0	1		Jump to da
	70.000	4.0	2		
			S		
					More
					Mana

dit recipe	Monday, February 01, 2016 1:21:25 AN				
1	Recipe name: recipe name	Save			
2	Recipe title: recipe title	Next page			
3	Recipe subtitle: recipe subtitle	Treat page			
4	Sample volume: 25				
5	Number of runs: 5	Delete			
6	Dilution factor: 1	Export			
7	Use background subtraction: YES	Run recipe			
8	Discard first run: NO				
9	Report: Run counter (per mL)	Discard changes			





Specifications

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Weight (without sensor)	58.2 lbs, (26.4 kg)
Sample Flow Rate	(mL/min) 10 to 100 (sensor dependent)
Sample Volume	(ml) 5 to 100
Tare Volume	(ml) 0.1 to 100 ml in 0.1 ml steps, not to exceed 1056 ml minus total sample volume
Flow Accuracy	+/- 2.5%
Viscosity Range	1-425cSt
Operating Pressure Range	maximum = 90psi
Operating Temperature Range	10 to 40°C
Storage Temperature Range	-35 to -65°C
Relative Humidity	10% to 80%, non-condensing
Max Altitude	6,500 ft.
Communication, Host I/0	Ethernet and 2 USB ports
Safety Feature	Waste container full alarm with optional float switch
Instrument Power	100 - 240VAC, 50/60 Hz, 0.5 A
Air Source	Shop or pump
Optional Pump Power	 110 to 120 VAC, 60 Hz, 4.5 A 100 VAC, 50 Hz, 4.5 A 220 to 240 VAC, 60 Hz, 1.9 A
Liquid Agitation Method	Electromagnetic stirrer
Fluid Degas Method	Vacuum (requires optional pump)
Fluid Compatibility	 Fluids compatible with stainless steel, glass and Teflon including: MIL-H-5606, MIL-H-83282, Shell Tellis™, Monsanto Skydrol™ version Akso Fyrquel™, Mobile Zerol™ 150, Marston Bentley HW 540 Monsanto Coolanol™, Stoddard Solvent, Jet Fuel (JP4, JP5) Kerosene, Diesel Fuel, Mineral Oil, Ethers, Alcohols, Aldehydes Ketones, Esters, Aromatics, Water
Sensor Cleaning Methods	Back flush, clean to count, and clean to volume
Particle Size Range	0.5 µm to 600 µm (sensor dependant)
Number of Size Channels	18
Reporting Standards	ISO, NAS, SAE, GOST, DOD and ASTM, User defined, Raw counts
Calibrations	 Polystyrene spheres in DI water and glycol ACFTD in 5606 ISO-MTD in 5606 (except HRLD-400) ISO11171 in 5606 (except HRLD-400 & MC-05) ISO-MTD & ACFTD in 5606 (HRLD-100 & 150 only)
Data Output	 pdf, tsv, import and export recipes over USB Web browser interface over Ethernet
Languages	English, French, German, Chinese, Italian, Spanish
IP Rating	IP30 per IEC 60529
User Serviceable Items	Desiccant, pneumatic and hydraulic filters
Calibration Interval	Recommend annual calibration
Display	7" color, non-touch screen
Data Buffer	3,000 records
Printer	Optional USB thermal printer
Compliance Declarations	CE, cETLus, KCc, C-Tic
Smart Sensor Interface	Smart Sensor Ready (allows for reading calibration information from sensors with onboard memory)





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